jc520 U.S. PTO
01/21/99

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Attorney's Docket No. 97-2099
Client's Docket No.CDN109

PATENT Utility APPLICATION COVER SHEET

jc518 U.S. PTO
09/234695
01/21/99

BOX PATENT APPLICATION
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Washington, D. C. 20231

Sir:

Transmitted herewith for filing is the utility patent application of:

INVENTOR: ANDRE-ROGER DELLEVI
JOSEPH E DENNIE

FOR: COMPUTERIZED-INTERACTIVE SHIFT TRADE RECORDING SYSTEM

Enclosed are:

X Postcard for receipt stamp and return.
X Applicant's Check for **$421.00**, covering fees calculated below.
X Specification with Claims, Abstract, & Declaration & Power of Attorney
X A verified statement to establish small entity status under 37C.F.R § 1.9 and 37 C.F.R. § 1.27.
X 13 sheets of drawing.
☐ Cover Sheet & Assignment to: _____
☐ Information Disclosure Statement.

The filing fee has been calculated as shown below:

FOR:	(Col. 1) No. Filed		(Col. 2) No. Extra		SMALL ENTITY RATE	FEE
BASIC FEE					$380	**$380**
TOTAL CLAIMS	**10**	-20=	**0**	x09	**0**	
INDEPENDENT CLAIMS	**4**	- 3=	**1**	x39		**39**
MULTIPLE DEPENDENT CLAIMS PRESENTED					+125	
			TOTAL			**$419**

DEPOSIT ACCOUNT AUTHORIZATION

The Commissioner is hereby authorized to charge any fees, which are not otherwise submitted and which may be required under 37 CFR 1.17 during the entire pendency of this application, to the Deposit Account # **11-0020.**

January 21, 1999
Date

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Attorney's Docket No. 97-2099
Client's Docket No. CDN109

In the United States Patent and Trademark Office

In re Application of:
ANDRE-ROGER DELLEVI
JOSEPH E DENNIE

Filed: **UTILITY PATENT APPLICATION**

For: COMPUTERIZED-INTERACTIVE SHIFT TRADE RECORDING SYSTEM

Assistant Commissioner for Patents and Trademarks
Washington, D.C. 20231

Date of Deposit: January 21, 1999

I hereby certify that the attached U.S. Patent Application, informal drawings, transmittal letter, priority document, and/or Preliminary Amendment are being deposited with the United States Postal Service under Express Mail service **#EL 249094281 US** on the date indicated above and is addressed to the Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

January 21, 1999
Date

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Attorney's Docket No. K&A 97-2099
Client's Docket No. CDN109

APPLICATION

FOR UNITED STATES LETTERS PATENT

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT WE, **ANDRE-ROGER HENRY DELLEVI**, a citizen of CANADA, and **JOSEPH EDWARD DENNIE**, a citizen of CANADA, have invented a new and useful **COMPUTERIZED-INTERACTIVE SHIFT TRADE RECORDING SYSTEM** of which the following is a specification:

COMPUTERIZED-INTERACTIVE SHIFT TRADE RECORDING SYSTEM

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to employee shift scheduling devices and more particularly pertains to a new computerized-interactive shift trade recording system for managing shift trading between various employees of an organization in a manner that ensures that employees are qualified for the work functions that they are trading.

Description of the Prior Art

The use of employee shift scheduling devices is known in the prior art. More specifically, employee shift scheduling devices heretofore devised and utilized are known to consist basically of familiar, expected and obvious structural configurations, notwithstanding the myriad of designs encompassed by the crowded prior art which have been developed for the fulfillment of countless objectives and requirements.

Known prior art employee shift scheduling devices include U. S. Patent No. 5,414,847; U.S. Patent No. 5,418,965; U.S. Patent No. 5,339,424; U.S. Patent No. 5,124,909; U.S. Patent No.

5,313,615; and U.S. Patent No. 4,868,785 which are each incorporated herein by reference.

In these respects, the computerized-interactive shift trade recording system according to the present invention substantially departs from the conventional concepts and designs of the prior art, and in so doing provides an apparatus primarily developed for the purpose of managing shift trading between various employees of an organization in a manner that ensures that employees are qualified for the work functions that they are trading.

SUMMARY OF THE INVENTION

In view of the foregoing disadvantages inherent in the known types of employee shift scheduling devices now present in the prior art, the present invention provides a new computerized-interactive shift trade recording system construction wherein the same can be utilized for managing shift trading between various employees of an organization in a manner that ensures that employees are qualified for the work functions that they are trading.

The general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new computerized-interactive shift trade recording system apparatus and method which has many of the advantages of the employee shift scheduling devices mentioned heretofore and many novel features that result in a new computerized-interactive shift trade recording system which is not anticipated, rendered obvious, suggested, or even implied by any of the prior art employee shift scheduling devices, either alone or in any combination thereof.

To attain this, the present invention generally comprises a computer with memory having stored therein a plurality of lists. Such lists include a first list of employees each having a criteria of training data associated therewith. A second list is provided including work area functions each having a criteria of training data associated therewith. Further included is a third list of notifications each corresponding to a unique combination of the employees and the work area functions based on the training data associated therewith. Lastly, a fourth list of time shifts of each of the employees is included. It should be noted that each time shift has one of the work area functions associated therewith. Also included is a computer usable medium having a computer-readable program code medium embodied therein. Such computer usable medium serves for controlling the computer to transfer a shift change in a place of employment. The computer-readable program code medium in said article of manufacture includes many subroutines or program code. For example, such computer-readable program code medium includes program code for causing the computer to verify an identity of a management user. As shown in Figures 1-9, this program code defines a verification subroutine that works in combination with a plurality of the remaining subroutines of the present invention. Namely, the verification subroutine works in conjunction with a program code for causing the computer to allow the editing of the first, second, third and fourth lists only after the verification of the identity of the management user. These editing subroutines are shown in Figures 1-8. Further included is program code for causing the computer to allow the browsing and printing of the fourth list, as shown in Figure 9. The computer-readable program code medium further includes a transfer subroutine relying on program code for causing

the computer to verify an identity of an owner of a shift and program code for causing the computer to verify an identity of a recipient of a shift. Upon the verification of the shift owner and recipient, program code is invoked for carrying out a cross-reference subroutine which causes the computer to automatically edit the fourth list by transferring a shift of the owner to the recipient. It is imperative that this is only carried out if the training data of the recipient matches that of the work area function associated with the shift of the owner. Finally, program code is provided for causing the computer to display one of the notifications from the third list which corresponds to the combination of the training data of the recipient and the training data of the transferred work area function.

There has thus been outlined, rather broadly, the more important features of the invention in order that the detailed description thereof that follows may be better understood, and in order that the present contribution to the art may be better appreciated. There are additional features of the invention that will be described hereinafter and which will form the subject matter of the claims appended hereto.

In this respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the drawings. The invention is capable of other embodiments and of being practiced and carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

As such, those skilled in the art will appreciate that the conception, upon which this disclosure is based, may readily be utilized as a basis for the designing of other structures, methods and systems for carrying out the several purposes of the present invention. It is important, therefore, that the claims be regarded as including such equivalent constructions insofar as they do not depart from the spirit and scope of the present invention.

Further, the purpose of the foregoing abstract is to enable the U.S. Patent and Trademark Office and the public generally, and especially the scientists, engineers and practitioners in the art who are not familiar with patent or legal terms or phraseology, to determine quickly from a cursory inspection the nature and essence of the technical disclosure of the application. The abstract is neither intended to define the invention of the application, which is measured by the claims, nor is it intended to be limiting as to the scope of the invention in any way.

It is therefore an object of the present invention to provide a new computerized-interactive shift trade recording system apparatus and method which has many of the advantages of the employee shift scheduling devices mentioned heretofore and many novel features that result in a new computerized-interactive shift trade recording system which is not anticipated, rendered obvious, suggested, or even implied by any of the prior art employee shift scheduling devices, either alone or in any combination thereof.

It is another object of the present invention to provide a new computerized-interactive shift trade recording system which may be easily and efficiently manufactured and marketed.

It is a further object of the present invention to provide a new computerized-interactive shift trade recording system which is of a durable and reliable construction.

An even further object of the present invention is to provide a new computerized-interactive shift trade recording system which is susceptible of a low cost of manufacture with regard to both materials and labor, and which accordingly is then susceptible of low prices of sale to the consuming public, thereby making such computerized-interactive shift trade recording system economically available to the buying public.

Still yet another object of the present invention is to provide a new computerized-interactive shift trade recording system which provides in the apparatuses and methods of the prior art some of the advantages thereof, while simultaneously overcoming some of the disadvantages normally associated therewith.

Still another object of the present invention is to provide a new computerized-interactive shift trade recording system for managing shift trading between various employees of an organization in a manner that ensures that employees are qualified for the work functions that they are trading.

Even still another object of the present invention is to provide a new computerized-interactive shift trade recording system that includes a computer with memory including stored therein a first list of employees each having a criteria of training data associated therewith and a second list of work area functions each having a criteria of training data associated therewith; a computer usable code having a computer readable program code medium

embodied therein for controlling the transfer of a shift change in a place of employment, the computer readable program code medium in said article of manufacture including computer-readable program code for causing the computer to ascertain an identity of an owner of a shift, computer-readable program code for causing the computer to ascertain an identity of a recipient of a shift, and computer-readable program code for causing the computer to approve the transferring of a shift of the owner to the recipient only if the training data of the recipient matches that of the work area function associated with the shift of the owner.

These together with other objects of the invention, along with the various features of novelty which characterize the invention, are pointed out with particularity in the claims annexed to and forming a part of this disclosure. For a better understanding of the invention, its operating advantages and the specific objects attained by its uses, reference should be made to the accompanying drawings and descriptive matter in which there are illustrated preferred embodiments of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

Figure 1 is a flow chart delineating the verification subroutine and one of the editing subroutines, namely the editing subroutine which allows employee information of the first list to be edited.

Figure 2 is a flow chart delineating the verification subroutine and one of the editing subroutines, namely the editing subroutine which allows the training data of the second list to be edited.

Figure 3 is a flow chart delineating the verification subroutine and one of the editing subroutines, namely the editing subroutine which allows the work area functions of the second list to be edited.

Figure 4 is a flow chart delineating the verification subroutine and one of the subroutines, namely the cross-reference subroutine which allows the editing of the rules which govern the program code for causing the computer to automatically edit the fourth list by transferring a shift of the owner to the recipient only if the training data of the recipient matches that of the work area function associated with the shift of the owner and further only if further criteria is met such as non-conflicting schedules and the like.

Figure 5 is a flow chart delineating the verification subroutine and one of the editing subroutines, namely the editing subroutine which allows the notifications of the third list to be edited.

Figure 6 is a flow chart delineating the verification subroutine and one of the editing subroutines, namely the editing subroutine which allows the employee information of the first list to be edited.

Figure 7 is a flow chart delineating the verification subroutine and one of the editing subroutines, namely the editing subroutine which allows the shifts of the fourth list to be edited.

Figure 8 is a flow chart delineating the process associated with the cross reference subroutine that edits the fourth list automatically.

Figure 9 is a flow chart delineating the subroutine associated with the program code for causing the computer to allow the browsing and printing of the fourth list.

Figure 10 is a flow chart delineating the process by which the identity of an owner of a shift is identified and verified. Figure 10 delineates the procedure with which a shift-trade or time-change must be chosen.

Figure 11 is a flow chart delineating the process by which the identity of a recipient of a shift is identified and verified. In such subroutine, criteria is checked to ensure that the recipient of a shift is not only qualified with respect to training, but also has a schedule that allows the shift trade.

Figure 12 is a flow chart delineating the process by which the identity of an owner of a shift is identified and verified. Figure 12 specifically sets forth the process associated with a time-change and further entails the displaying of both shifts which are affected by the trade.

Figure 13 is a flow chart of an optional record locator feature of the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference now to the drawings, and in particular to Figures 1 through 13 thereof, a new computerized-interactive shift trade recording system embodying the principles and concepts of the present invention and generally designated by the reference numeral 10 will be described.

The present invention, designated as numeral 10, includes a computer with memory having stored therein a plurality of lists. Such lists include a first list of employees each having a criteria of training data, or an employee training record(ETR), associated therewith. A second list is provided including work area functions (WAF) each having a criteria of training data associated therewith. Further included is a third list of notifications, or warning/disclaimer messages (WDM) each corresponding to a unique combination of the employees and the work area functions based on the training data associated therewith. Lastly, a fourth list of time shifts of each of the employees is included. It should be noted that each time shift has one of the work area functions associated therewith.

Also included is a computer usable medium having a computer-readable program code medium embodied therein. Such computer usable medium serves for controlling the computer to transfer a shift change in a place of employment. The computer-readable program code medium in such article of manufacture includes many subroutines or program code.

For example, such computer-readable program code medium includes program code for causing the computer to verify an identity of a management user. As shown in Figures 1-9, this program code defines a verification subroutine 12 that works in combination with a plurality of the remaining subroutines of the present invention. Namely, the verification subroutine works in conjunction with a program code for causing the computer to allow the editing of the first, second, third and fourth lists only after the verification of the identity of the management user. These editing subroutines are shown in Figures 1-7.

Specifically, Figure 1 shows an editing subroutine which allows employee information of the first list to be edited. Figure 2 shows the editing subroutine which allows the training data of the second list to be edited. Figure 3 shows the editing subroutine which allows the work area functions of the second list to be edited. Figure 5 shows the editing subroutine which allows the notifications of the third list to be edited. Figure 6 is a flow chart showing the editing subroutine which allows the employee information of the first list to be edited. As shown, a PIN number of each employee may be selected. Figure 7 shows an editing subroutine which allows the shifts of the fourth list to be edited. As shown in the foregoing flowcharts, the pertinent lists are edited by giving the verified management user an opportunity to add, change, or delete the information in the lists.

Further included is program code for causing the computer to allow the browsing and printing of the fourth list, as shown in

Figure 9. Certain information may be found about the shifts of various employees by merely entering the name thereof.

The computer-readable program code medium further includes a transfer subroutine 16 relying on program code for causing the computer to verify an identity of an owner of a shift and program code for causing the computer to verify an identity of a recipient of a shift. To accomplish this, a keypad or magnetic card swiping apparatus may be provided for verifying an identification of an employee stored in the first list.

It should be noted that in the context of the present description, the term shift refers to a complete trade of a shift(usually day for day) and further refers to hourly trades during a single day. A shift trade is where one swaps one calendar day for another. For example, an owner "A" trades a shift on a date with recipient "B", so that owner "A" will owe to work and pay back recipient "B" another shift on a different date. As such, two separate transactions are required for carrying out the above procedure. A distinct time change is the variation where although shifts are still traded, the shifts involved are scheduled within the same day. For example, owner "A" has a morning shift on a date and owner "B" has an afternoon shift on the same date and the owners agree to exchange, or trade shifts. Thus, either the owner and recipient roles may be inter-changed or reversed as either one of the parties can "offer" up one of the shifts as long as the other completes the time-change transaction which will switch the shifts and give one confirmed record locator.

Upon the verification of the shift owner and recipient, program code is invoked for carrying out a cross-reference subroutine 18 which causes the computer to automatically edit the fourth list by transferring a shift of the owner to the recipient. It is imperative that this is only carried out if the training data of the recipient matches that of the work area function associated with the shift of the owner. If the training data does not match, the transfer subroutine is ended. It should be noted that proper training is not the only criteria on which the transfer may depend. For example, conflicting schedules a status of an employee schedule (active and non-active including vacation, sick leave, etc.) may determine whether the transfer is permitted along with any other criteria. The status of an employee schedule or work status code(WSC) may be selectively edited, as shown in Figure 1. In addition, a length of time before the requested shift trade may also dictate whether the shift trade is carried out. Such length of time, or time/calendar parameter, may also be selectively edited, as shown in Figure 4.

Finally, program code is provided for causing the computer to display one of the notifications from the third list which corresponds to the combination of the training data of the recipient and the training data of the transferred work area function. The aforementioned notifications preferably comprise of warnings, caution notices, and the like which are pertinent when one of the employees with certain training data is assigned certain work area functions. As shown in Figure 5, such notifications may be selectively edited.

Figure 13 shows an optional record locator feature of the present invention which allows viewing or browsing of shift trades

and the status thereof. As shown, an owner of a shift can check to see if the shift they have offered up as conditional to the recipient of the shift has been accepted. In which case, if it has been accepted, it would signal that a confirmed record locator, or record, has been effected. It should be noted that shift trade is given the confirmed status only upon each of the criteria being met. In the conditional stage, it is usual for only the owner and anyone with access to the system that has confidentially obtained the conditional record locator to have access to see it. However, once the recipient has completed the transaction to accept the offered shift, confidentiality is raised to restrict viewing of the confirmed record locator to only the owner and recipient. In fact, the record locator can be entered with a conditional status(usually by the owner to see if the recipient has taken on the shift yet) or a confirmed status(usually by the recipient or owner to verify shift trade status). In summary, the confidentiality of viewing or browsing of shift trades changes between a conditional and confirmed stage, as set forth hereinabove.

It should be noted that the various inputting of information mentioned hereinabove may be accomplished by a keyboard, mouse, light pen, or any other type of input device. Further, to facilitate such entry and also allow the viewing of the notices, prompts and other pertinent information, a display is provided. The computer preferably governs the input device and display by way of the program code which is stored in the machine. It should be noted that the present invention may also be carried out using application specific integrated circuitry, thereby constituting primarily a hardware device.

As to a further discussion of the manner of usage and operation of the present invention, the same should be apparent from the above description. Accordingly, no further discussion relating to the manner of usage and operation will be provided.

With respect to the above description then, it is to be realized that the optimum dimensional relationships for the parts of the invention, to include variations in size, materials, shape, form, function and manner of operation, assembly and use, are deemed readily apparent and obvious to one skilled in the art, and all equivalent relationships to those illustrated in the drawings and described in the specification are intended to be encompassed by the present invention.

Therefore, the foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.

CLAIMS

We claim:

1. An article of manufacture, comprising:

a computer with memory including stored therein a first list of employees each having a criteria of training data associated therewith, a second list of work area functions each having a criteria of training data associated therewith, a third list of notifications each corresponding to a unique combination of the employees and the work area functions based on the training data associated therewith, and a fourth list of time shifts of each of the employees wherein each time shift has one of the work area functions associated therewith; and

a computer usable medium having a computer-readable program code medium embodied therein for controlling the transfer of a shift change in a place of employment, the computer-readable program code medium in said article of manufacture comprising:

computer-readable program code for causing the computer to verify an identity of a management user,

computer-readable program code for causing the computer to allow the editing of the first, second, third and fourth lists only after the verification of the identity of the management user,

computer-readable program code for causing the computer to allow the browsing and printing of the fourth list,

computer-readable program code for causing the computer to verify an identity of an owner of a shift,

computer-readable program code for causing the computer to verify an identity of a recipient of a shift,

computer-readable program code for causing the computer to automatically edit the fourth list by transferring a shift of the owner to the recipient only if the training data of the recipient matches that of the work area function associated with the shift of the owner, and

computer-readable program code for causing the computer to display one of the notifications from the third list which corresponds to the combination of the training data of the recipient and the training data of the transferred work area function.

2. An article of manufacture:

a computer with memory including stored therein a first list of employees each having a criteria of eligibility data associated therewith and a second list of work area functions each having a criteria of eligibility data associated therewith;

a computer usable code having a computer readable program code medium embodied therein for controlling the transfer of a

shift change in a place of employment, the computer readable program code medium in said article of manufacture comprising:

computer-readable program code for causing the computer to ascertain an identity of an owner of a shift,

computer-readable program code for causing the computer to ascertain an identity of a recipient of a shift, and

computer-readable program code for causing the computer to approve the transferring of a shift of the owner to the recipient only if the eligibility data of the recipient matches that of the work area function associated with the shift of the owner.

3. An article of manufacture as set forth in claim 2 wherein the memory of the computer further includes an additional list of time shifts of each of the employees wherein each time shift has one of the work area functions associated therewith and computer-readable program code for causing the computer to allow the browsing and printing of the additional list.

4. An article of manufacture as set forth in claim 2 wherein the memory of the computer further includes an additional list of notifications each corresponding to a unique combination of the employees and the work area functions based on the eligibility data associated therewith and further included is computer-readable program code for causing the computer to display one of the notifications from the third list which corresponds to the combination of the eligibility data of the recipient and the eligibility data of the transferred work area function.

5. An article of manufacture as set forth in claim 2 and further including computer-readable program code for causing the computer to verify an identity of a management user and computer-readable program code for causing the computer to allow the editing of the lists only after the verification of the identity of the management user.

6. A computer-implemented method for processing signals related to a first list of employees each having a criteria of eligibility data associated therewith and a second list of work area functions each having a criteria of eligibility data associated therewith, the method comprising:

ascertaining an identity of an owner of a shift,

ascertaining an identity of a recipient of a shift, and

approving the transferring of a shift of the owner to the recipient only if the eligibility data of the recipient matches that of the work area function associated with the shift of the owner.

7. A computer-implemented method as set forth in claim 6 and further including the step of allowing the editing of the lists only after the verification of the identity of the management user.

8. An article of manufacture:

a computer with memory having stored therein a list of employees;

a computer usable code having a computer readable program code medium embodied therein for controlling the transfer of a shift change in a place of employment, the computer readable program code medium in said article of manufacture comprising:

computer-readable program code for causing the computer to ascertain an identity of an owner of a shift,

computer-readable program code for causing the computer to ascertain an identity of a recipient of a shift, and

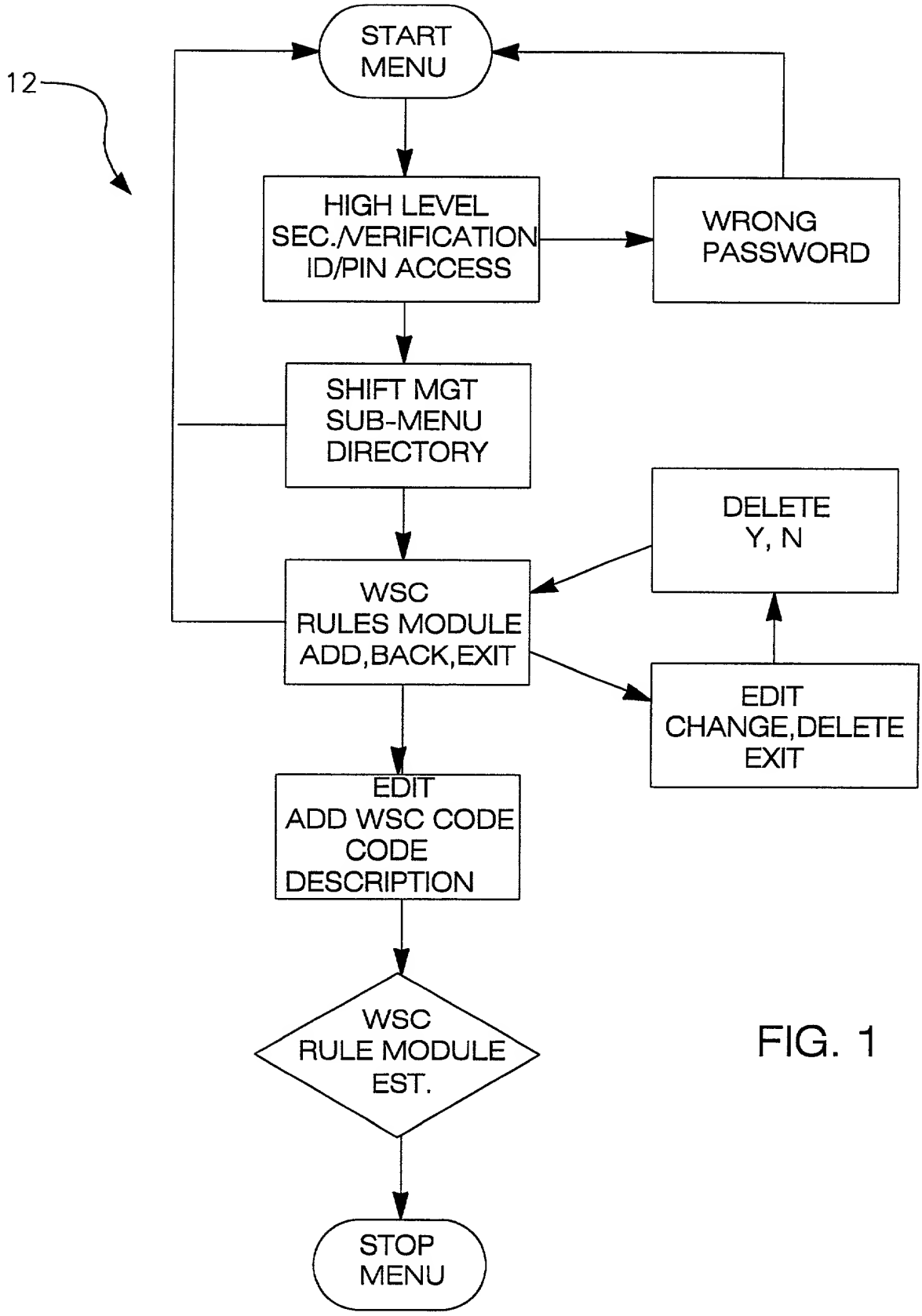
computer-readable program code for causing the computer to approve the transferring of a shift of the owner to the recipient only upon certain criteria being met.

9. An article of manufacture as set forth in claim 8 wherein the criteria is a length of time before a requested shift transfer.

10. An article of manufacture as set forth in claim 8 wherein the criteria is whether any shifts of at least one of the owner and recipient overlap.

ABSTRACT OF THE DISCLOSURE

An article of manufacture is provided including a computer with memory including stored therein a first list of employees each having a criteria of eligibility data associated therewith and a second list of work area functions each having a criteria of eligibility data associated therewith; a computer usable code having a computer readable program code medium embodied therein for controlling the transfer of a shift change in a place of employment, the computer readable program code medium in said article of manufacture including computer-readable program code for causing the computer to ascertain an identity of an owner of a shift, computer-readable program code for causing the computer to ascertain an identity of a recipient of a shift, and computer-readable program code for causing the computer to approve the transferring of a shift of the owner to the recipient only if the eligibility data of the recipient matches that of the work area function associated with the shift of the owner.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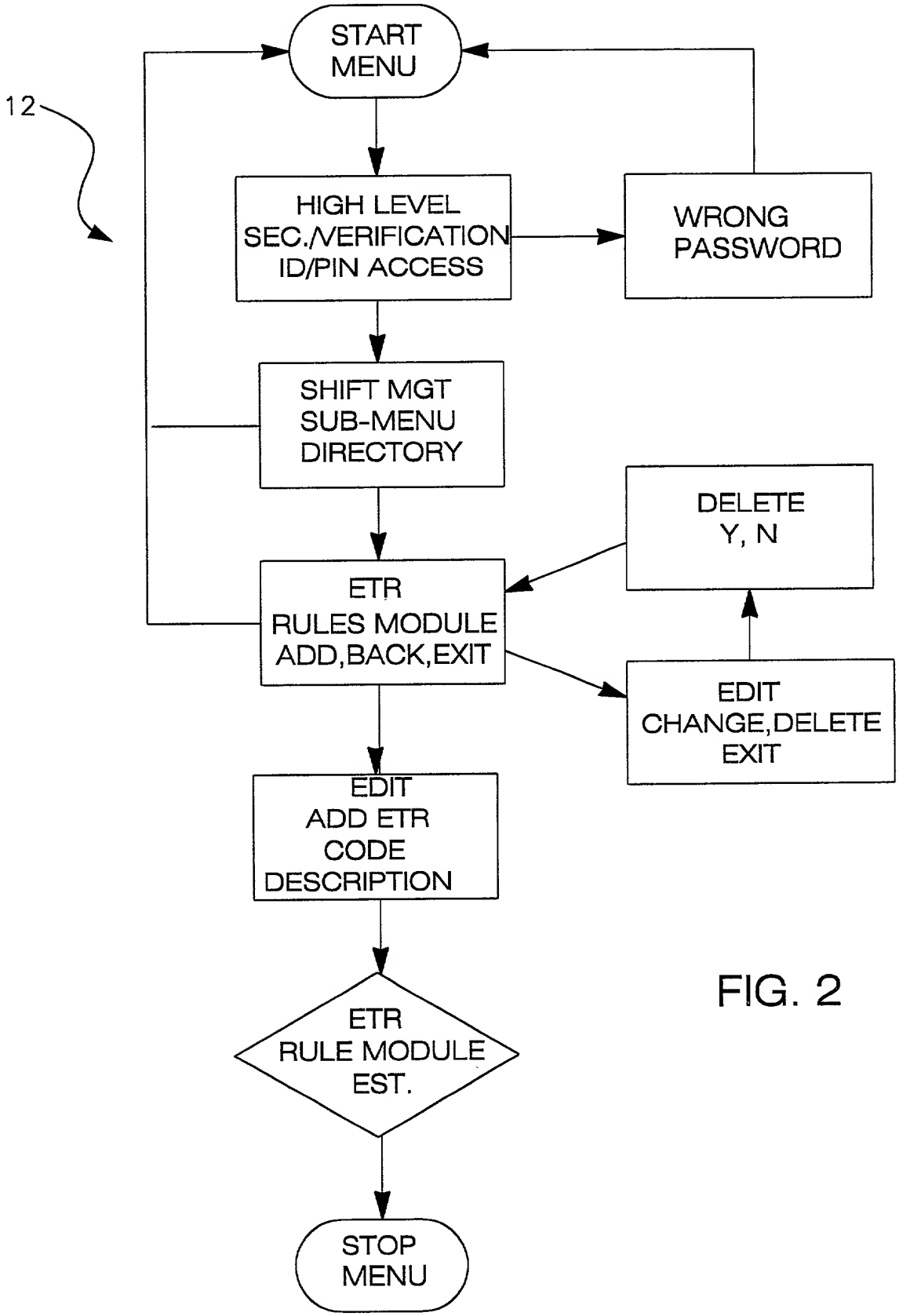
START MENU
HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
SHIFT MGT SUB-MENU DIRECTORY
DELETE Y, N
WSC RULES MODULE ADD,BACK,EXIT
EDIT CHANGE,DELETE EXIT
EDIT ADD WSC CODE CODE DESCRIPTION
WSC RULE MODULE EST.
STOP MENU

FIG. 1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HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
SHIFT MGT SUB-MENU DIRECTORY
DELETE Y, N
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EDIT CHANGE,DELETE EXIT
EDIT ADD ETR CODE DESCRIPTION
ETR RULE MODULE EST.
STOP MENU

FIG. 2

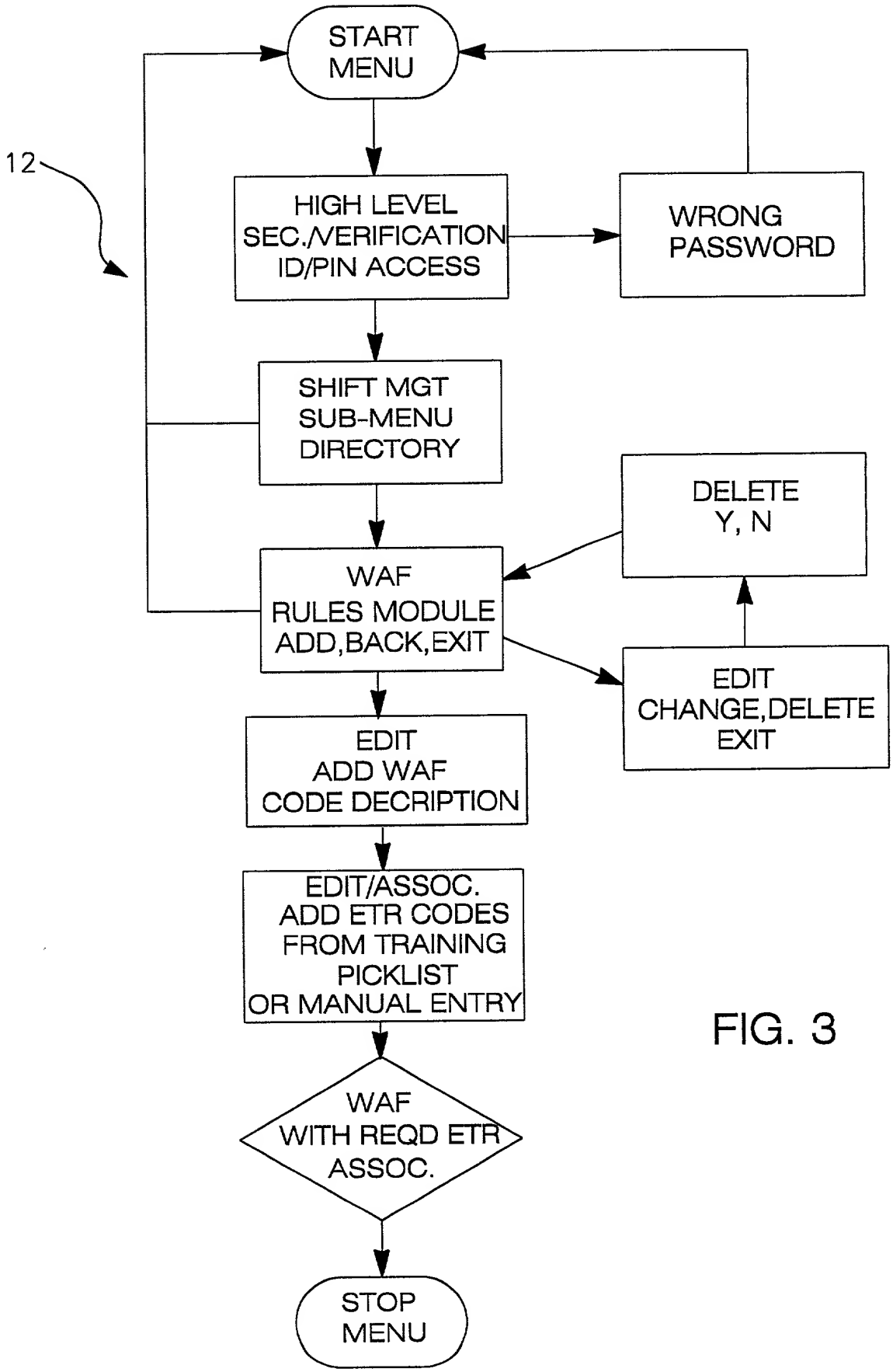
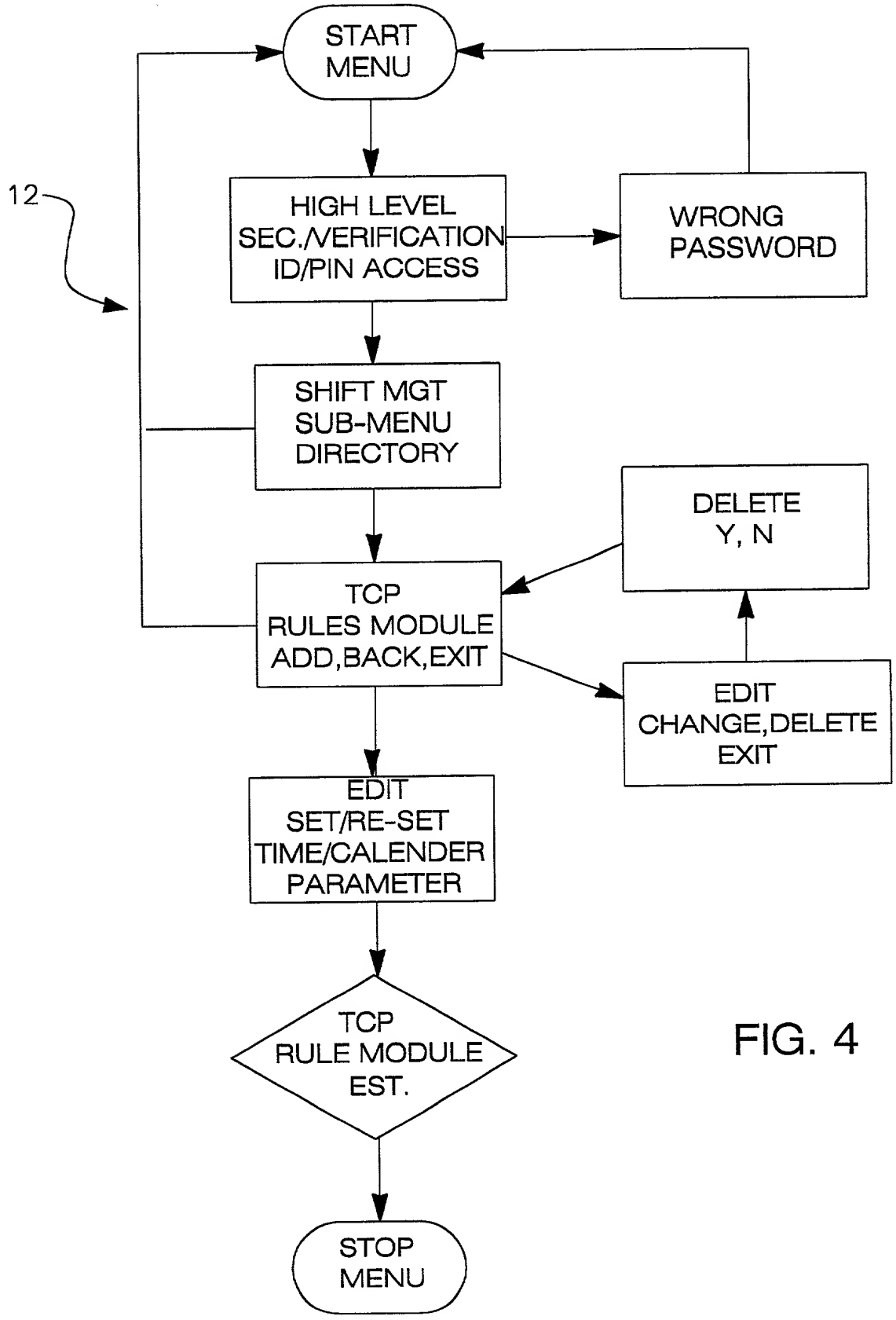

12
START MENU
HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
SHIFT MGT SUB-MENU DIRECTORY
DELETE Y, N
WAF RULES MODULE ADD,BACK,EXIT
EDIT CHANGE,DELETE EXIT
EDIT ADD WAF CODE DECRIPTION
EDIT/ASSOC. ADD ETR CODES FROM TRAINING PICKLIST OR MANUAL ENTRY
WAF WITH REQD ETR ASSOC.
STOP MENU

FIG. 3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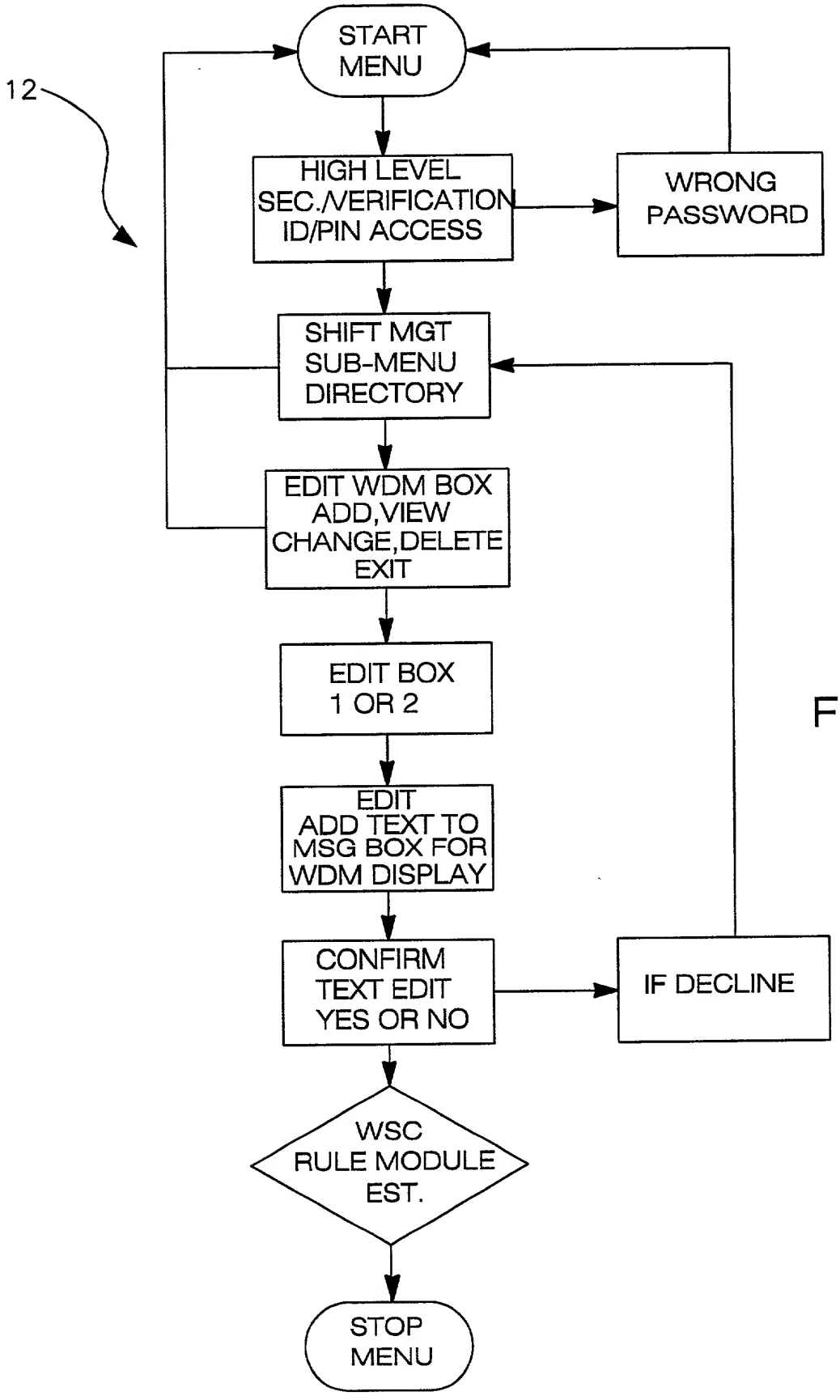
HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
SHIFT MGT SUB-MENU DIRECTORY
DELETE Y, N
TCP RULES MODULE ADD,BACK,EXIT
EDIT CHANGE,DELETE EXIT
EDIT SET/RE-SET TIME/CALENDER PARAMETER
TCP RULE MODULE EST.
STOP MENU

FIG. 4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START MENU
HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
SHIFT MGT SUB-MENU DIRECTORY
EDIT WDM BOX ADD,VIEW CHANGE,DELETE EXIT
EDIT BOX 1 OR 2
EDIT ADD TEXT TO MSG BOX FOR WDM DISPLAY
CONFIRM TEXT EDIT YES OR NO
IF DECLINE
WSC RULE MODULE EST.
STOP MENU

FIG. 5

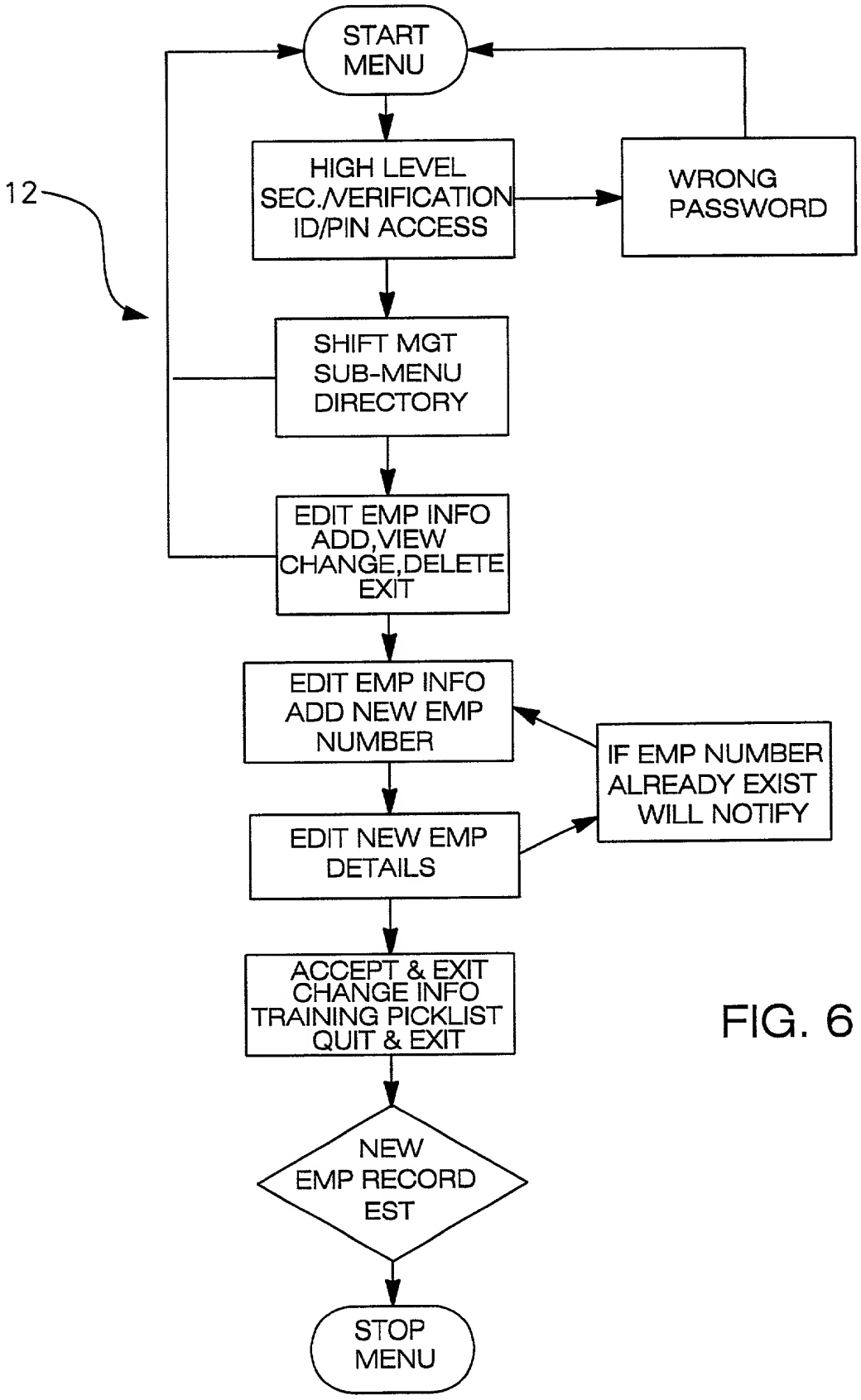
START MENU
HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
12
SHIFT MGT SUB-MENU DIRECTORY
EDIT EMP INFO ADD,VIEW CHANGE,DELETE EXIT
EDIT EMP INFO ADD NEW EMP NUMBER
IF EMP NUMBER ALREADY EXIST WILL NOTIFY
EDIT NEW EMP DETAILS
ACCEPT & EXIT CHANGE INFO TRAINING PICKLIST QUIT & EXIT
NEW EMP RECORD EST
STOP MENU

FIG. 6

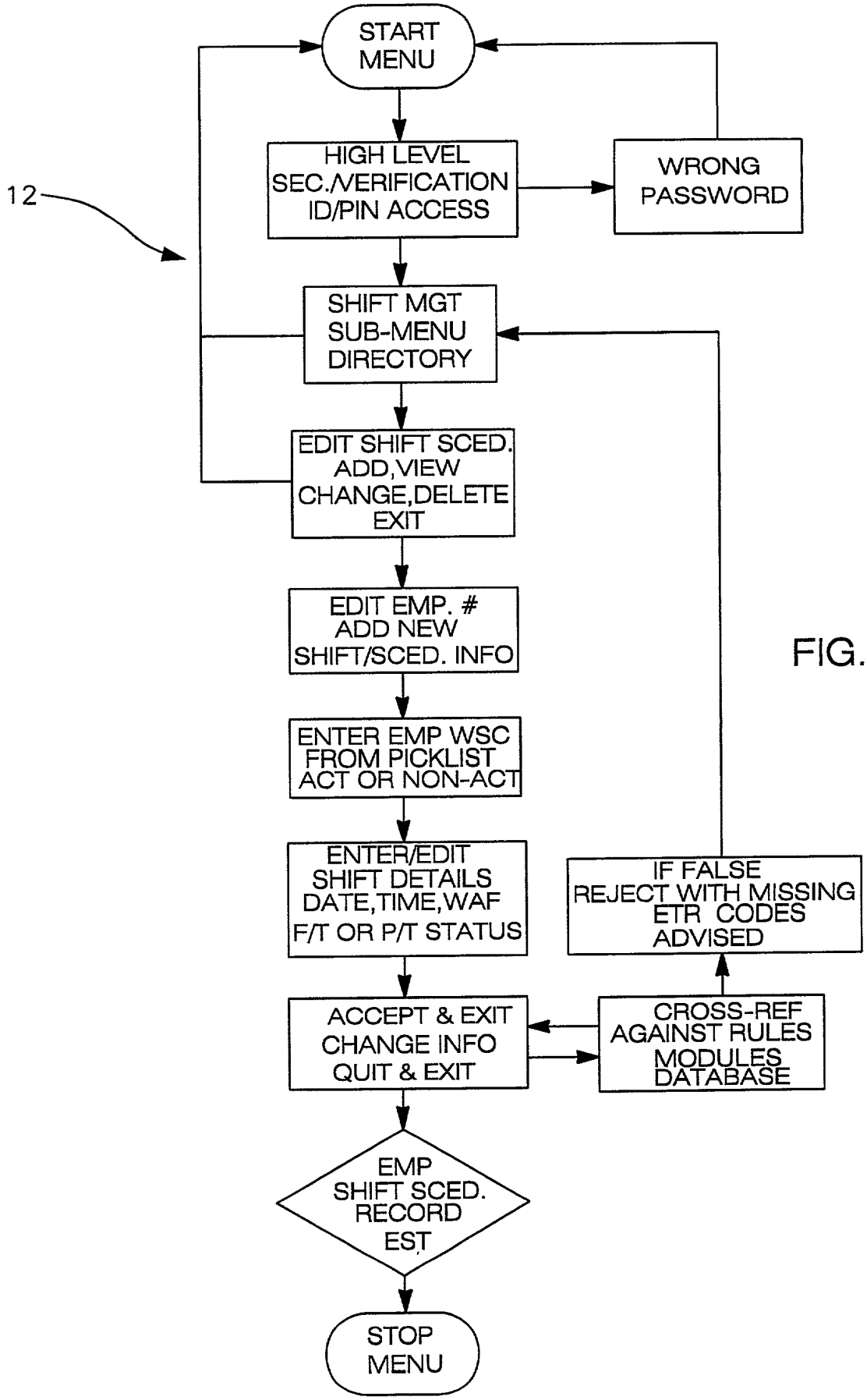
12
START MENU
HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
SHIFT MGT SUB-MENU DIRECTORY
EDIT SHIFT SCED. ADD,VIEW CHANGE,DELETE EXIT
EDIT EMP. # ADD NEW SHIFT/SCED. INFO
ENTER EMP WSC FROM PICKLIST ACT OR NON-ACT
ENTER/EDIT SHIFT DETAILS DATE,TIME,WAF F/T OR P/T STATUS
IF FALSE REJECT WITH MISSING ETR CODES ADVISED
ACCEPT & EXIT CHANGE INFO QUIT & EXIT
CROSS-REF AGAINST RULES MODULES DATABASE
EMP SHIFT SCED. RECORD EST
STOP MENU

FIG. 7

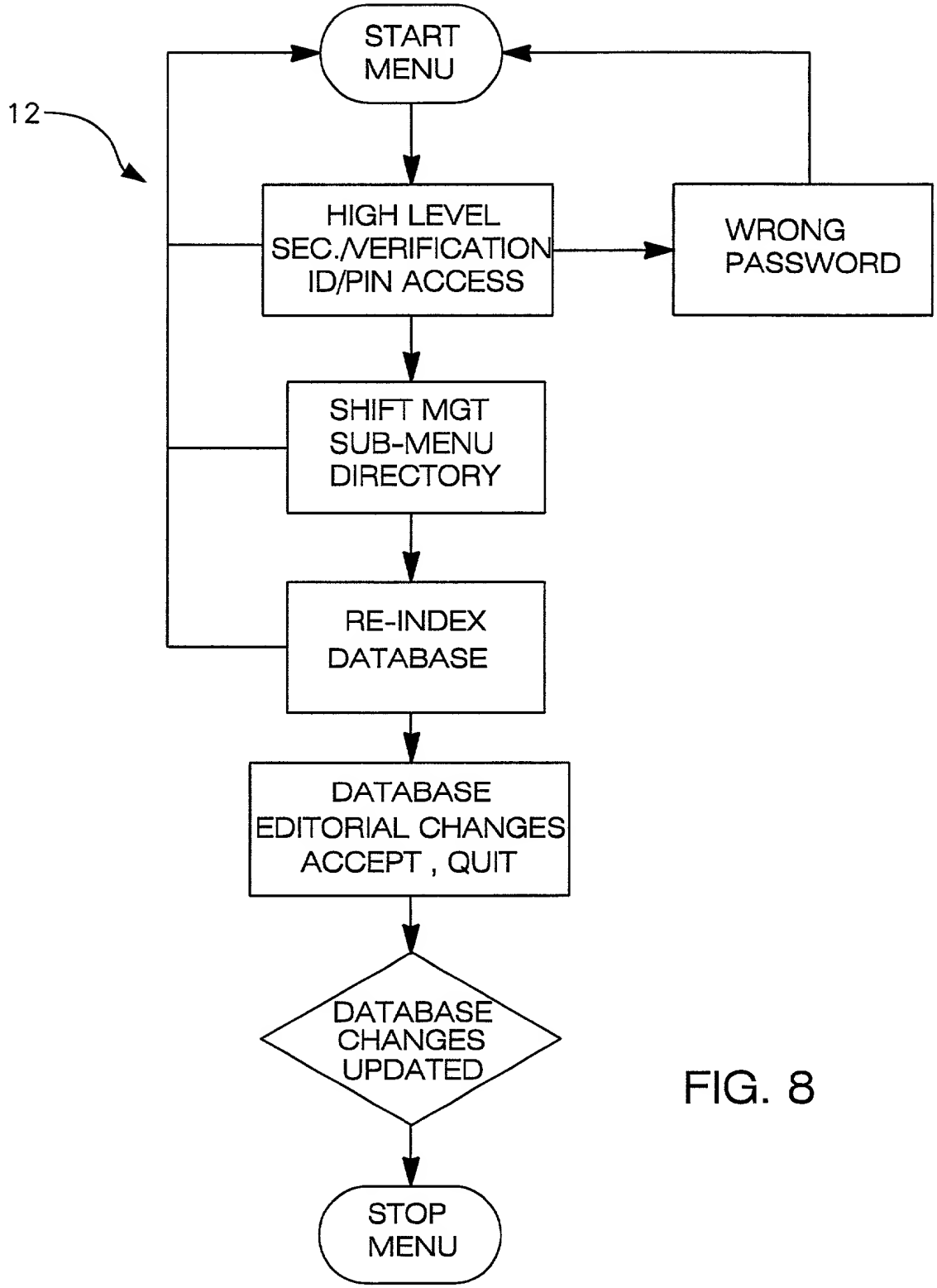
12
START MENU
HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
SHIFT MGT SUB-MENU DIRECTORY
RE-INDEX DATABASE
DATABASE EDITORIAL CHANGES ACCEPT , QUIT
DATABASE CHANGES UPDATED
STOP MENU

FIG. 8

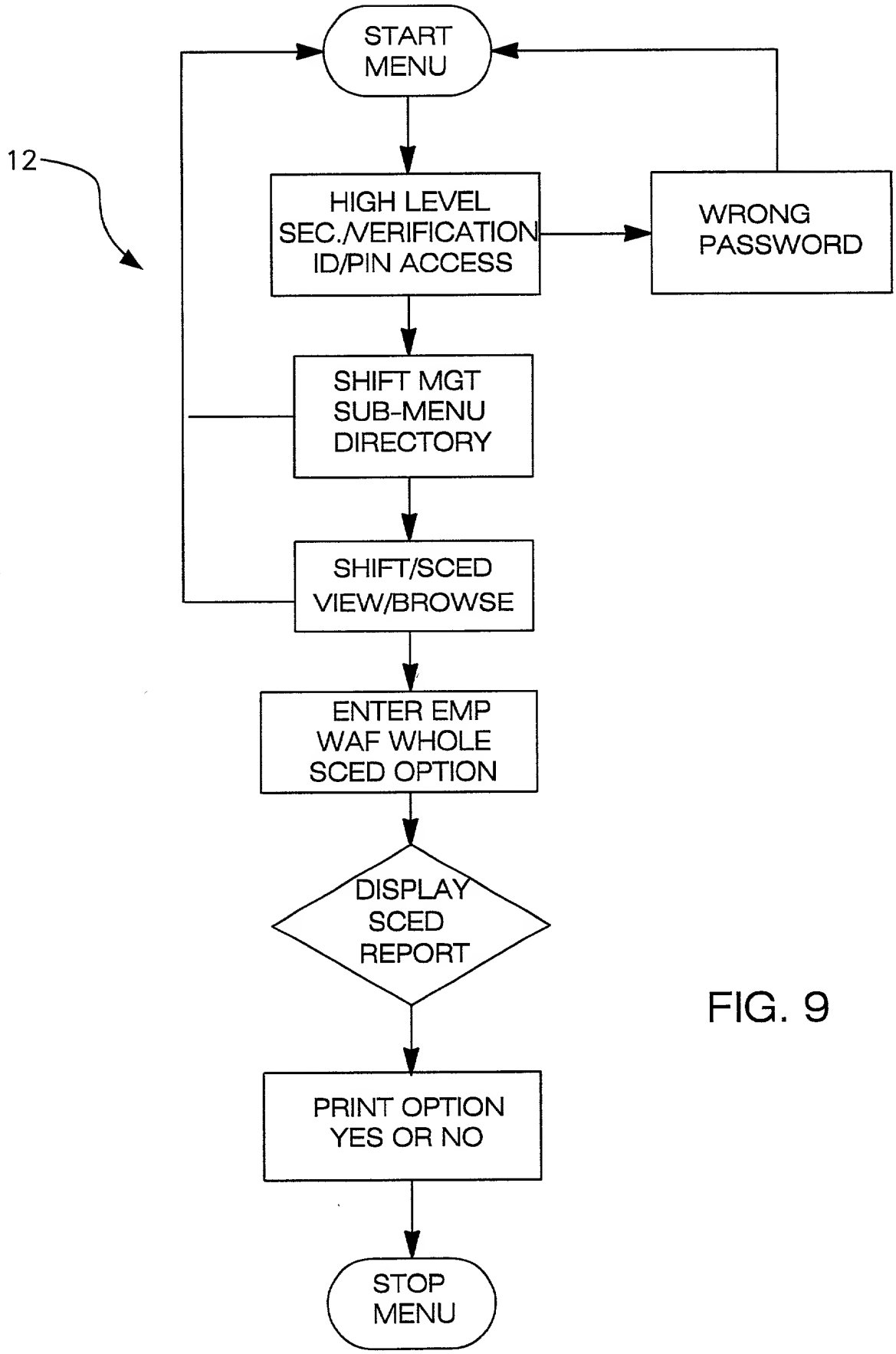
12
START MENU
HIGH LEVEL SEC./VERIFICATION ID/PIN ACCESS
WRONG PASSWORD
SHIFT MGT SUB-MENU DIRECTORY
SHIFT/SCED VIEW/BROWSE
ENTER EMP WAF WHOLE SCED OPTION
DISPLAY SCED REPORT
PRINT OPTION YES OR NO
STOP MENU

FIG. 9

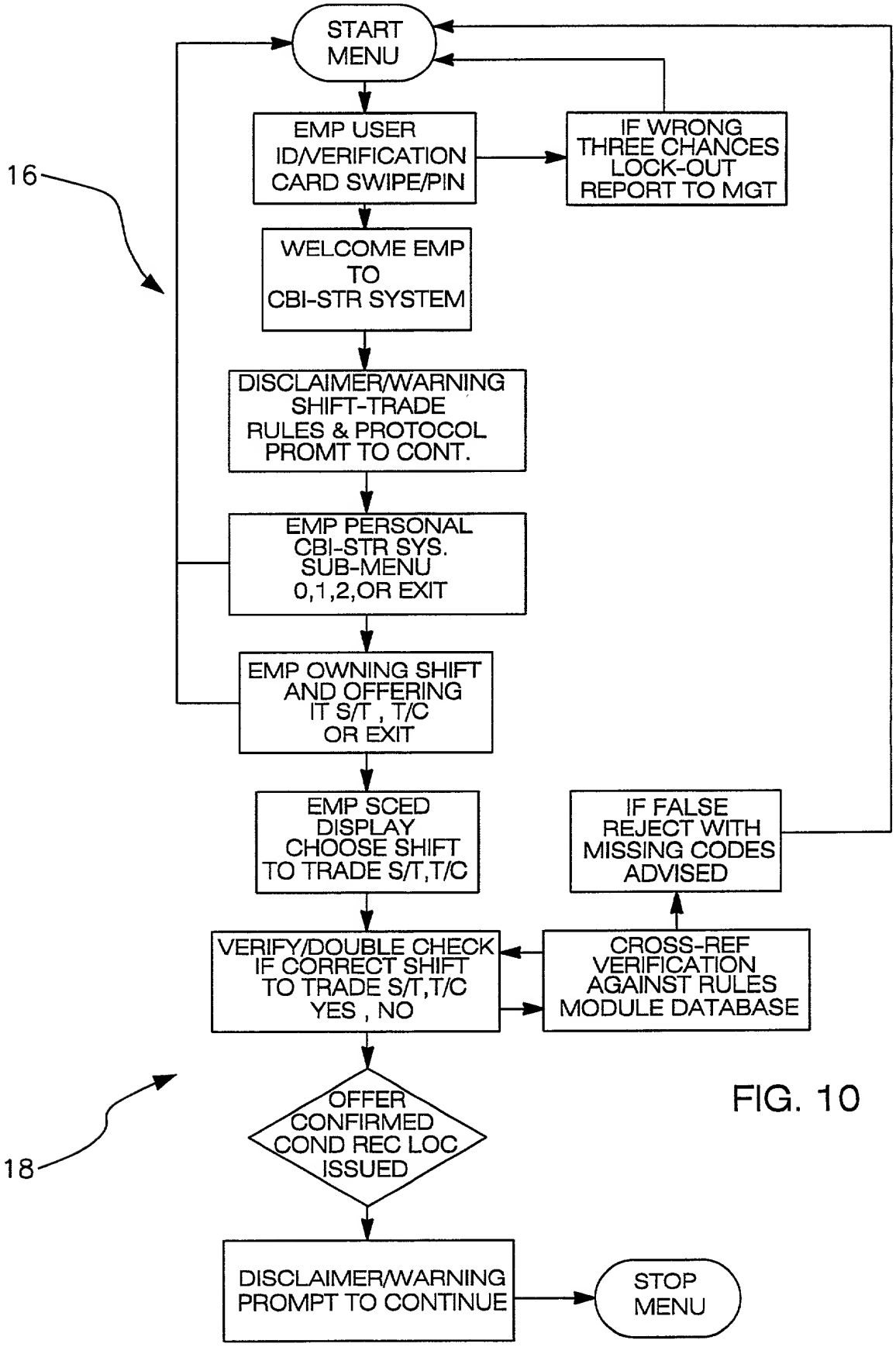
START MENU
EMP USER ID/VERIFICATION CARD SWIPE/PIN
IF WRONG THREE CHANCES LOCK-OUT REPORT TO MGT
16
WELCOME EMP TO CBI-STR SYSTEM
DISCLAIMER/WARNING SHIFT-TRADE RULES & PROTOCOL PROMT TO CONT.
EMP PERSONAL CBI-STR SYS. SUB-MENU 0,1,2,OR EXIT
EMP OWNING SHIFT AND OFFERING IT S/T , T/C OR EXIT
EMP SCED DISPLAY CHOOSE SHIFT TO TRADE S/T,T/C
IF FALSE REJECT WITH MISSING CODES ADVISED
VERIFY/DOUBLE CHECK IF CORRECT SHIFT TO TRADE S/T,T/C YES , NO
CROSS-REF VERIFICATION AGAINST RULES MODULE DATABASE
18
OFFER CONFIRMED COND REC LOC ISSUED
DISCLAIMER/WARNING PROMPT TO CONTINUE
STOP MENU

FIG. 10

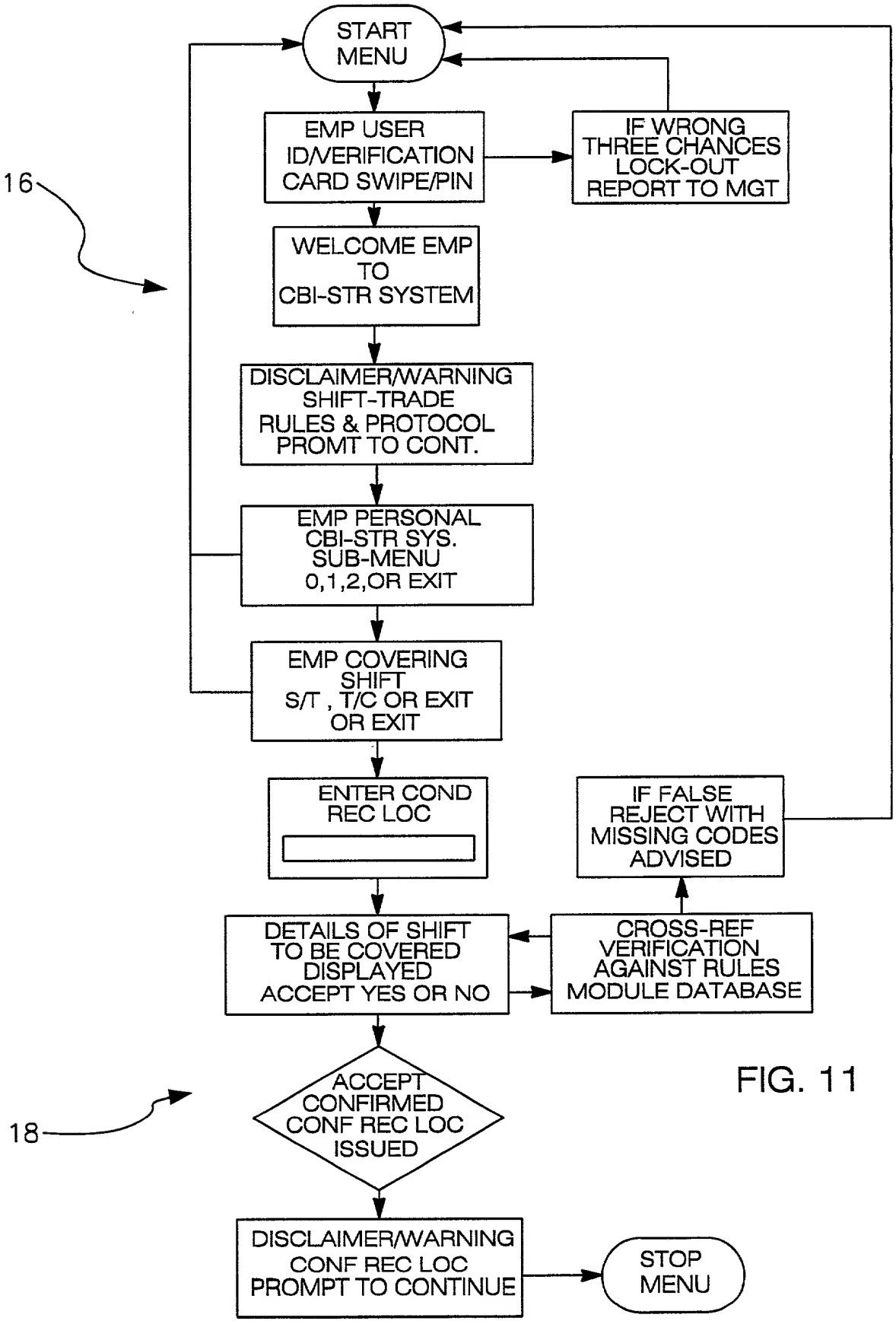
START MENU
EMP USER ID/VERIFICATION CARD SWIPE/PIN
IF WRONG THREE CHANCES LOCK-OUT REPORT TO MGT
16
WELCOME EMP TO CBI-STR SYSTEM
DISCLAIMER/WARNING SHIFT-TRADE RULES & PROTOCOL PROMT TO CONT.
EMP PERSONAL CBI-STR SYS. SUB-MENU 0,1,2,OR EXIT
EMP COVERING SHIFT S/T , T/C OR EXIT OR EXIT
ENTER COND REC LOC
IF FALSE REJECT WITH MISSING CODES ADVISED
DETAILS OF SHIFT TO BE COVERED DISPLAYED ACCEPT YES OR NO
CROSS-REF VERIFICATION AGAINST RULES MODULE DATABASE
18
ACCEPT CONFIRMED CONF REC LOC ISSUED
DISCLAIMER/WARNING CONF REC LOC PROMPT TO CONTINUE
STOP MENU

FIG. 11

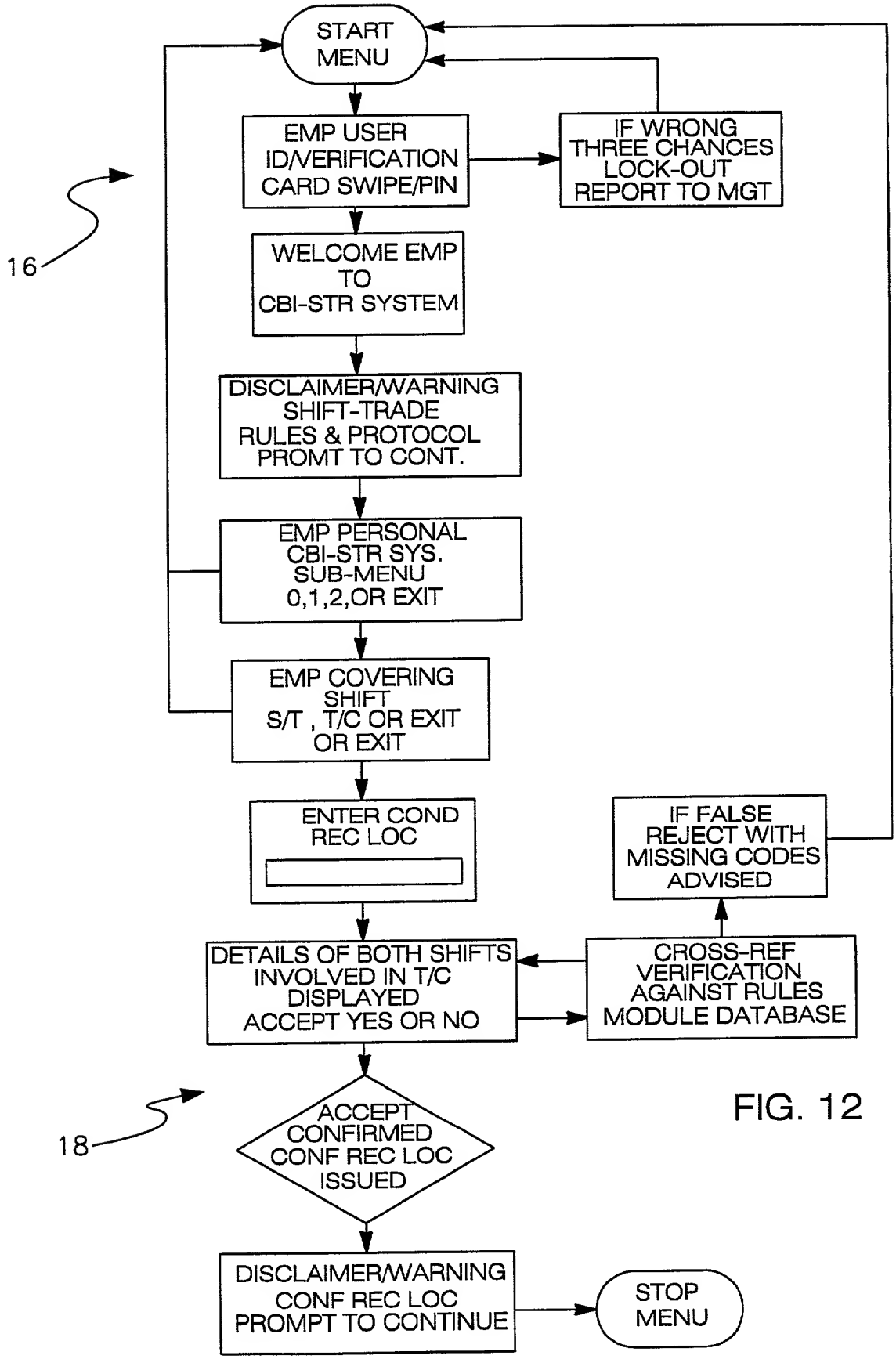
START MENU
EMP USER ID/VERIFICATION CARD SWIPE/PIN
IF WRONG THREE CHANCES LOCK-OUT REPORT TO MGT
16
WELCOME EMP TO CBI-STR SYSTEM
DISCLAIMER/WARNING SHIFT-TRADE RULES & PROTOCOL PROMT TO CONT.
EMP PERSONAL CBI-STR SYS. SUB-MENU 0,1,2,OR EXIT
EMP COVERING SHIFT S/T , T/C OR EXIT OR EXIT
ENTER COND REC LOC
IF FALSE REJECT WITH MISSING CODES ADVISED
DETAILS OF BOTH SHIFTS INVOLVED IN T/C DISPLAYED ACCEPT YES OR NO
CROSS-REF VERIFICATION AGAINST RULES MODULE DATABASE
18
ACCEPT CONFIRMED CONF REC LOC ISSUED
DISCLAIMER/WARNING CONF REC LOC PROMPT TO CONTINUE
STOP MENU

FIG. 12

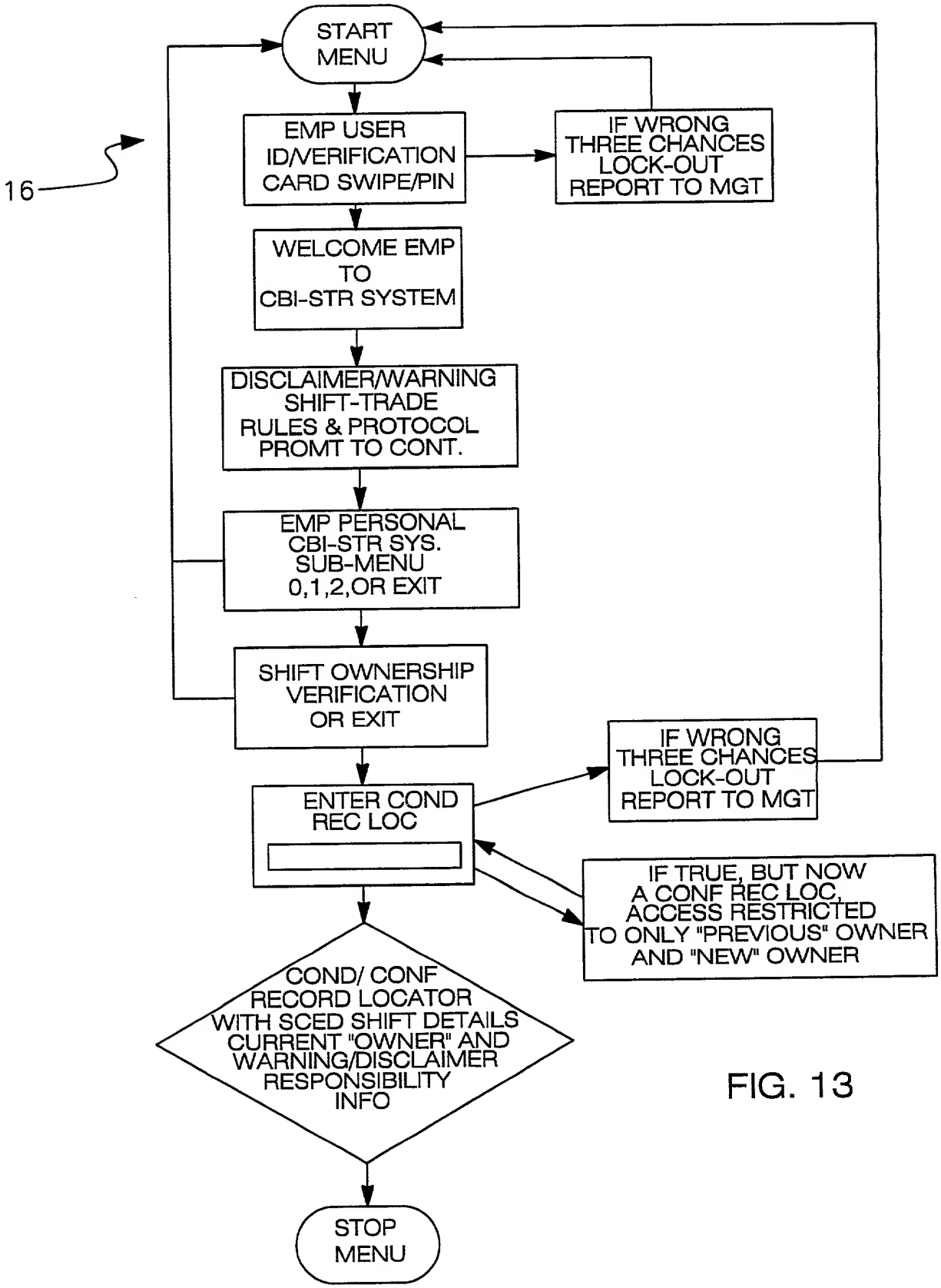
16
START MENU
EMP USER ID/VERIFICATION CARD SWIPE/PIN
IF WRONG THREE CHANCES LOCK-OUT REPORT TO MGT
WELCOME EMP TO CBI-STR SYSTEM
DISCLAIMER/WARNING SHIFT-TRADE RULES & PROTOCOL PROMT TO CONT.
EMP PERSONAL CBI-STR SYS. SUB-MENU 0,1,2,OR EXIT
SHIFT OWNERSHIP VERIFICATION OR EXIT
IF WRONG THREE CHANCES LOCK-OUT REPORT TO MGT
ENTER COND REC LOC
IF TRUE, BUT NOW A CONF REC LOC, ACCESS RESTRICTED TO ONLY "PREVIOUS" OWNER AND "NEW" OWNER
COND/ CONF RECORD LOCATOR WITH SCED SHIFT DETAILS CURRENT "OWNER" AND WARNING/DISCLAIMER RESPONSIBILITY INFO
STOP MENU

FIG. 13

Attorney's Docket No. K&A 97-2099
Client's Docket No. CDN109

Applicant or Patentee: **ANDRE-ROGER HENRY DELLEVI**
JOSEPH EDWARD DENNIE

Serial or Patent Number:
Filed or Issued:
For: **COMPUTERIZED-INTERACTIVE SHIFT TRADE RECORDING SYSTEM**

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(b) - INDEPENDENT INVENTOR

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled as above and described in:

[X] the specification filed herewith.
[ ] application serial number _____, filed _____.
[ ] patent no. _____, issued _____.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

[X] no such person, concern, or organization
[ ] persons, concerns or organizations listed below*

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME: NOT APPLICABLE
ADDRESS: NOT APPLICABLE

[ ] INDIVIDUAL
[ ] SMALL BUSINESS CONCERN
[ ] NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF INVENTOR: **ANDRE-ROGER HENRY DELLEVI**

A-R DELLEVI Date: 01 / JAN / 1999

Inventor's Signature

NAME OF INVENTOR: **JOSEPH EDWARD DENNIE**

Joseph E Dennie Date: 07 / JAN / 99

Inventor's Signature

Attorney's Docket No. K&A 97-2099
Client's Docket No. CDN109

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

COMPUTERIZED-INTERACTIVE SHIFT TRADE RECORDING SYSTEM

the specification of which is attached hereto.

I further state that I do not know and do not believe that the above-named invention has ever been known or used in the United States before my invention thereof, or patented or described in any printed publication in any country before my invention thereof, or in public use or on sale in the United States more than one year prior to this application; that the invention has not been patented or made the subject of any inventor's certificate in any country foreign to the United States on any application filed by me or my legal representatives or assigns more than six (6) months prior to this application; and that no application for patent or inventor's certificate on the invention has been filed by me or my representatives or assigns in any country foreign to the United States, except as identified below.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment if applicable.

I acknowledge the duty to disclose information to the Patent and Trademark Office all information known to me to be material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)		Priority Claimed		
NONE				
(Number)	(Country)	(Day/Month/ Year Filed)	(Yes)	(No)

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States Provisional application(s) listed below:

NONE	
(Application No.)	(Filing Date)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or Section 365 (c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, Section 112. I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

NONE		
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys to prosecute this application and transact all business in the U.S. Patent and Trademark Office connected therewith: Ivar M. Kaardal, Registration Number 29,812.

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A-R DELLEVI Date: 01 JAN 1999

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Full Name of Inventor: **JOSEPH EDWARD DENNIE**

Joseph E Dennie Date: January 07, 1999

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